

101.10 - Stainless Steels (disk form)

Technical Contact: john.sieber@nist.gov

PLEASE NOTE: The tables are presented to facilitate comparisons among a family of materials to help customers select the best SRM for their needs. For specific values and uncertainties, the certificate is the only official source.

SRM	1155	1171	1172	1219	1223	1295	1297	C1151a	c1152a	C1153a	C1154a
Description	Stainless Steel Cr 18-Ni 12-Mo 2 (AISI 316)	Stainless Steel Cr 17-Ni 11-Ti 0.3 (AISI 321)	Stainless Steel Cr 17-Ni 11-Nb 0.6 (AISI 348)	Stainless Steel Cr-Ni (AISI 431)	Chromium Steel	Stainless Steel (SAE 405)	Stainless Steel (SAE 201)	Stainless Steel 23Cr-7Ni	Stainless Steel 18Cr-11Ni	Stainless Steel 17Cr-9Ni	Stainless Steel 19Cr-13Ni
Unit of Issue	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)
C	0.0445	0.067	0.056	0.149	0.127	0.027	0.066	0.034	0.142	0.225	0.100
Mn	1.619	1.81	1.76	0.42	1.08	0.387	7.11	2.39	0.95	0.544	1.44
P	0.0200	(0.019)	0.025	0.026	0.018	0.022	0.038	0.017	0.023	0.030	0.06
S	0.0175	(0.013)	0.014	0.001	0.329	0.0003	0.0033	0.038	0.0064	0.019	0.051
Si	0.5093	0.536	0.59	0.545	0.327	0.321	0.397	0.29	0.64	1.00	0.53
Cu	0.175	0.1205	0.105	0.162	0.081	0.260	0.442	0.385	0.097	0.226	0.44
Ni	12.35	11.18	11.35	2.16	0.232	0.194	5.34	7.25	10.86	8.76	13.08
Cr	18.37	17.50	17.40	15.64	12.64	13.52	16.69	22.59	17.76	16.70	19.31
V	0.050			0.056	0.068	0.082	0.080	0.040	0.033	0.176	0.135
Mo	2.26	0.167	0.22	0.164	0.053	0.023	0.331	0.79	0.44	0.24	0.068
Co	0.109	0.097	0.12	(0.04)	Mg (	0.020	0.127	0.033	0.22	0.127	0.38
N	(0.04)			0.078	(0.05)	Sn (0.02)	Sn ((0.21)	(0.055)	(0.11)	(0.077)
Al				(0.001)	((0.20)	(0.003)	(0.003)	(0.004)	(0.004)	
Nb			0.65	(0.01)		((0.015)	(0.15)	(0.48)	(0.22)	
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Unit of Issue	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)	(disk)
Ta				Sn (0.008)	Sn (0.004)	(((0.004)	(0.001)	(0.03)	(0.045)
Pb	(0.001)			(		(0.0001)	(	0.0039	0.0047	0.006	0.017
Ti		0.346		(		(0.01)	(		(0.013)	(0.004)	
Zr				B (	(0.0001)	As (0.006)	As (0.005)			(0.0001)	(0.001)
W	(0.11)	(0.012)		(0.02)	Ca (	(0.002)	(0.03)				
As	0.01067										

Values in parentheses are not certified and are given for information only.

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C1296

**Stainless
Steel**

(disk)

0.038
0.256
0.024
0.013
0.66
0.056
0.373
27.90
0.134
3.43
0.026
Sn (
0.035
0.20

C1296

**Stainless
Steel**

(disk)

(
(
0.23
As (
(

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Bi (<0.0005)

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